

Automotive Relays

TRS

FILE NUMBER: T810S-A14A

◆FEATURES

- 30A 16VDC switching rating
- 40A inrush at 16VDC
- Smallest power relay
- 1 Form A and 1 Form C arrangements in single and dual relay packages
- For Automotive Applications

◆ORDERING CODE

TRS	12VDC	Z
Relay Model 继电器型号	Coil Nominal Voltage 线圈额定电压	Sealed form 塑封形式
TRS	12	Z:From C H:From A

◆SPECIFICATION

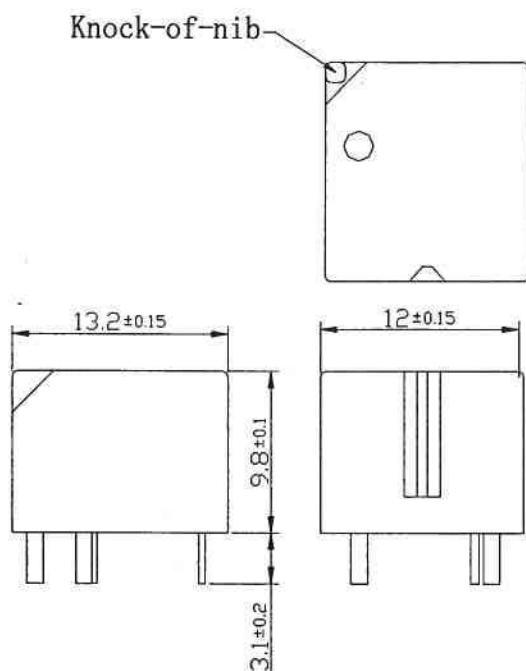
◆ CONTACT DATA

Contact Form	1A/1C			
Contact Material	Silver Alloy			
Load	Resistive load(COS Φ 1)			
Contact Ratings	Load	From A	From C(NC/NO)	
	Max. Continuous Current	30A	30A	25A
	Max. Break Current	30A	30A	25A
	Max. Make Current	100A	100A	15A
	Overload Current	50A 5sec 87.5A 0.5sec 150A 0.1sec		
	Minimum load	0.5A 12VDC		
	Max Switching Power	35~320W		
Contact Resistance	100m Ω Max		at 6VDC 1A	
Electrical Life	100, 000at20A		Operations(at6Operations/minute)	
Mechanical Life	10, 000, 000		Operations(at300Operations/minute)	

◆ APPROVED STANDARDS

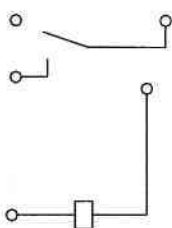
◆ OVERALL AND MOUNTING DIMENSIONS

Outline Dimensions-Single Relay

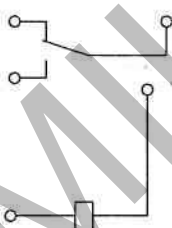


Wiring Diagrams-Single Relay (Bottom Views)

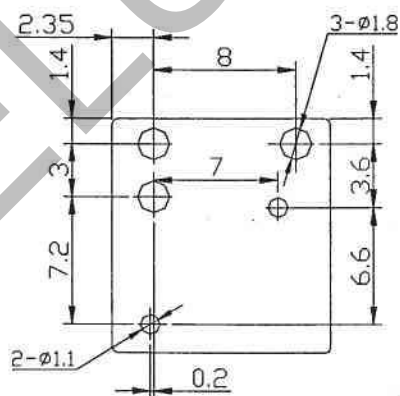
1 Form A



1 Form C



Suggested PC Board Layout-Single Relay (Bottom View)



◆ GENERAL DATA

Insulation Resistance		100M Ω Min at 500VDC
Between Contacts and coil		500VAC(50/60Hz for one minute)
Operate Time		3ms
Release Time		1.5ms
Temperature Range	Storage	-40°Cto+155°C
	Operating	-40°Cto+105°C
Shock Resistance		6 msec up to 30g (No change in the switching state>10 μ sec)
Vibration Resistance		10-500Hz, 6g(No change in the switching state>10 μ sec)
Max. switching frequency		Mechanical:72,000operations/hr Electrical:360operations/hr
Humidity		20-50%
Weight		Approx 4g
Safety Standard		

◆ COIL DATA

Voltage:12VDC

Resistance:See coil Datd table

Nom. Power:0.55W at 23°C coil temp. and rated coil voltage

Thermal Resistance:50°C per actual coil watt in still air with no contact load current

Nominal Voltage (VDC)	Coil Resistance at20 \pm 10%(Ω)	Rated current mA	Max Operate Voltage VDC	Min Release Voltage VDC	Max Applicable Voltage VDC	
					At 105°C	At23°C
12	254	47.2	6.9	1.2	16.5	27.2